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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/538,296	06/10/2005	Minehiro Tonosaki	270749US6PCT	3462	
OBLON SPIV	7590 07/16/201 'AK, MCCLELLAND	EXAM	EXAMINER		
1940 DUKE STREET ALEXANDRIA, VA 22314			LEO, LEONARD R		
			ART UNIT	PAPER NUMBER	
			3744		
			NOTIFICATION DATE	DELIVERY MODE	
			07/16/2010	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Application No. Applicant(s) TONOSAKI ET AL. 10/538,296

Office Action Summary	Examiner	Art Unit					
·	Leonard R. Leo	3744					
The MAILING DATE of this communication app		orrespondence ac	ldress				
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL. WHICHEVER IS LONGER, FROM THE MAILING DV. Extensions of time may be available under the provisions of 3 CTR 11.1 after 50% (6) MONTHS from the mailing date of the communication. If NO period for reply is specified above, the maximum statutory period to reply with the set or extended period for reply with 12. Any reply recoiced by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a repty be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 05 M	<u>ay 2010</u> .						
2a) This action is FINAL. 2b) ☐ This	action is non-final.						
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the	e merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>12 and 13</u> is/are pending in the applic	ation						
4a) Of the above claim(s) 13 is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) 12 is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement						
-, <u></u>							
Application Papers							
9) The specification is objected to by the Examine	r.						
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b)⊡ objected to by the l	Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is obj	ected to. See 37 C	FR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ГО-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c⟩ None of:							
1. Certified copies of the priority documents have been received.							
Certified copies of the priority documents have been received in Application No.							
Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau	•		- 0				
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5). Notice of Informal P						

Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3} - Information-Discloser-Statem-nt(e) (PTO-62709) Paper No(s)Mail Date	4) Interview Summary (PTO-413) Paper No(s) Mail Date. 5) Neitner of Informal Patent Application. 6) Other:	
S. Retent and Trademark Office		

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DETAILED ACTION

The amendment filed on January 6, 2010 has been entered. 1-11 and 14-15 are cancelled, and claims 12-13 are pending. The indicated allowability of claims 12-13 is withdrawn in view of the newly discovered reference(s) to Steele et al or Uchida et al. Rejections based on the newly cited reference(s) follow.

Election/Restrictions

 $\label{lem:continuous} Applicant's election without traverse of the invention of Group I in the reply filed on $$May 5, 2010 is acknowledged.$

Claim 13 is withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nelson et al in view of Steele et al or Mochida et al

Nelson et al (Figure 2) discloses a heat transport device comprising a first base plate 305B including a liquid suction and retention unit 330, a body 335 with protrusions, a second base plate 305C composed of polyimide including a first concavity 315B, a second concavity 315A, a first ditch 320A forming a channel between the first concavity 315B and the second concavity 315A, and a second ditch 320B forming a channel between the second concavity 315A.

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and the liquid suction and retention unit 330; wherein the base plates are glued together, but does not disclose a resin bonding material, nor the first base plate covered with a protective film.

Steele et al discloses a heat exchanger comprising a heat transfer surface and a protective coating of silicate for the purpose of providing microbial growth inhibition and improving wetting and wicking properties to improve heat transfer (abstract, column 3, lines 35-40 and 55-60).

Uchida et al discloses a heat exchanger comprising a heat transfer surface and a protective coating of silicon dioxide for the purpose of improving corrosion resistance and enhancing wetting and wicking properties to improve heat transfer (column 7, lines 7-11).

Since Nelson et al and Steele et al or Uchida et al are both from the same field of endeavor and/or analogous art, the purpose disclosed by Steele et al or Uchida et al would have been recognized in the pertinent art of Nelson et al.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to employ in Nelson et al a protective coating of silicon dioxide or silicate for the purpose of improving wetting and wicking properties to improve heat transfer and providing microbial growth inhibition or improving corrosion resistance as recognized by Steele et al or Uchida et al. Further, it would have been obvious to one of ordinary skill in the art to apply a known technique to a known device ready for improvement to yield predictable results.
KSR Int'l Co. v. Teleflex Inc., 82 USPQ2d 1385, 1396 (2007).

The Examiner takes Official Notice of resin material for its use in the bonding art and the selection of any known equivalent to bond two structures together would be within the level of ordinary skill in the art. Furthermore, it has been held to be within the general skill of a worker

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in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPO 416.

Response to Arguments

No further comments are deemed necessary at this time.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonard R. Leo whose telephone number is (571) 272-4916. The examiner can normally be reached on Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on (571) 272-4834. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/ Leonard R. Leo / PRIMARY EXAMINER ART UNIT 3744

July 14, 2010